



EXAMINATIONS COUNCIL OF ESWATINI
Eswatini General Certificate of Secondary Education

BIOLOGY

6884/03

Paper 3 Practical Test

October/November 2021

CONFIDENTIAL INSTRUCTIONS

Great care should be taken that any confidential information given does not reach the candidates either directly or indirectly.

The Supervisor's attention is drawn to the form on page 5 which must be completed and returned with the scripts.

This document consists of **5** printed pages and **3** blank pages.

Instructions for preparing apparatus

These instructions give details of the apparatus required by each candidate for each experiment in this paper. A summary of the questions that will be presented to the candidates is included, where appropriate, to allow the Biology teacher who is the supervisor to test the apparatus appropriately.

No access to the question paper is permitted in advance of the examination session.

If a candidate breaks any of the apparatus, or loses any of the material supplied, the matter should be rectified and a note made in the Supervisor's report.

It is assumed that the ordinary apparatus of a science laboratory will be available, including a supply of purified water (distilled or deionised).

If arrangements are made for different sessions for different groups of candidates, care must be taken to ensure that the different groups of candidates are effectively isolated so that **no information passes between them**.

Supervisors are advised to remind candidates that **all** substances in the examination should be treated with caution. Pipette fillers and safety goggles should be used where necessary.

C = corrosive substance

H = harmful or irritating substance

T = toxic substance

F = highly flammable substance

O = oxidising substance

Instructions for preparing apparatus**For Question 1**

Each candidate will require

- (a) 2 boiling tubes
- (b) 2 rubber stoppers that fit the boiling tubes, each fitted with a laboratory thermometer
- (c) hot water at 60 °C to 70 °C supplied in a polystyrene foam cup with lid labelled “**hot water**”
- (d) sufficient cotton wool to cover 1 boiling tube
- (e) test-tube rack or suitable support for two boiling tubes
- (f) timer/stop clock
- (g) 2 small-sized rubber bands
- (h) paper towel

For Question 2

- (a) paper towel
- (b) two peanut seeds, soaked for 24 hours, in a Petri dish labelled “**C**”
- (c) a maize seed, soaked for 24 hours, in a Petri dish labelled “**D**”
- (d) about 10 cm³ ethanol in a suitable container with a dropper or pipette labelled “**Ethanol**”
- (e) two small test-tubes in a test-tube rack or a suitable support
- (f) a scalpel knife
- (g) a tile
- (h) labelling stickers (small size)
- (i) hand lens
- (j) a pair of forceps
- (k) access to water

Note: Supervisors are to place the hot water at almost boiling on the candidates’ working stations just before the examination. The hot water should be provided in closed polystyrene foam cups and should be about $\frac{3}{4}$ full.

Information required from the Supervisor:

The Supervisor is asked to carry out the experiments and to enter the results on a spare copy of the examination paper, clearly marked ‘Supervisor’s Results’ and showing the Centre number. This should be returned with the scripts. Failure to do so may cause the candidates to be penalised.

**REPORT ON PRACTICAL BIOLOGY****October/November 2021 Examination****General**

The Supervisor is invited to give details of any difficulties experienced by particular candidates, giving their names and candidate numbers. These should include reference to:

- (a)** difficulties due to faulty apparatus;
- (b)** accidents involving apparatus or materials;
- (c)** physical handicaps, e.g. short sight, colour blindness;
- (d)** any other information that is likely to assist the examiner, especially if this cannot be discovered in the scripts;
- (e)** any help given to a candidate.

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The Supervisor is asked to supply the following information:

Plan of work benches, giving details by candidate numbers of the places occupied by the candidates for each session and a copy of the 'Supervisor's Results'.

NAME OF CENTRE

CENTRE NUMBER

NAME OF SUPERVISOR

SIGNED

DECLARATION (to be signed by the Principal)

The preparation of this examination has been carried out so as to maintain fully the security of the examination.

NAME

(in block capitals)

SIGNED.....

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